(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 25 August 2005 (25.08.2005)

(10) International Publication Number WO 2005/078312 A3

- (51) International Patent Classification: F16H 1/28, 1/46, B60N 2/02, 2/06, 2/08, 2/22
- (21) International Application Number:

PCT/US2005/002298

- (22) International Filing Date: 25 January 2005 (25.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

60/542,343

6 February 2004 (06.02.2004) US

- (71) Applicant (for all designated States except US): L & P PROPERTY MANAGEMENT COMPANY [US/US]; 4095 Firestone Boulevard, South Gate, California 90280 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MCMILLEN, Robert J. [CA/CA]; 2084 Lesperance, Tecsumseh, Ontario N8N 2N4 (CA). KOPETZKY, Robert [AT/DE]; Bachgasse 7, 91207 Lauf (DE). BENSON, Joseph [US/US]; 8255 North Disboro Road, South Lyon, Michigan 48178 (US). KOGEL, Hans [CA/CA]; 3265 Randolph, Windsor, Ontario N9E 3E8 (CA). BLENDEA, Horia [CA/CA]; 596 Vanernoot Avenue, LaSalle, Ontario N9J 3P7 (CA).

- (74) Agents: CHAMBERS, David et al.; Husch & Eppenberger LLC, 190 Carondelet Plaza, Suite 600, St. Louis, Missouri 63105 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

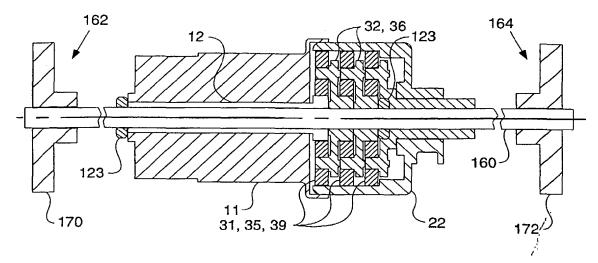
Published:

with international search report

(88) Date of publication of the international search report: 26 January 2006

[Continued on next page]

(54) Title: DRIVE MECHANISM



(57) Abstract: A hollow axle motor assembly (10) includes an armature (13) and a hollow axle (12) attached to the armature (13). The hollow axle (12) has an outer diameter (14) and an inner diameter (16). The inner diameter (16) of the hollow axle (12) receives a shaft or tube, such as a drive shaft (52). A gear (20) is attached to the outer diameter (14) of the hollow axle (12). The gear (20) is in driving communication with a planetary gear drive assembly (30). In turn, the planetary gear drive assembly (30) is in driving communication with a drive shaft mount (40). The drive shaft mount (40) can be used to drive any number of conventional items, including, for example, the drive shaft (52).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.